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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/499,369	02/07/2000	Toshitsugu Wakabayashi	1190-0437P	1167
7	590 08/28/2002			
Birch Stewart Kolasch & Birch LLP			EXAMINER	
P O Box 747 Falls Church, VA 22040-0747			TRAN, TRANG U	
			ART UNIT	PAPER NUMBER
			2614	
			DATE MAILED: 08/28/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
. Office Action Summary		09/499,369	WAKABAYASHI, TOSHITSUGU			
		Examiner	Art Unit			
		Trang U. Tran	2614			
Daviadé	The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
	Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM					
THE - Ext afte - If th - If N - Fai - Any	MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 er SIX (6) MONTHS from the mailing date of this communication. he period for reply specified above is less than thirty (30) days, a reply O period for reply is specified above, the maximum statutory period valure to reply within the set or extended period for reply will, by statute or reply received by the Office later than three months after the mailing need patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, y within the statutory minimum will apply and will expire SIX (e, cause the application to bec	may a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this communication. ome ABANDONED (35 U.S.C) § 133).			
1) <u></u>	Responsive to communication(s) filed on					
2a)□		· iis action is non-final.				
3)□	, 		al matters, prosecution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
· <u></u>	tion of Claims					
4)[Claim(s) <u>1-19</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw		2			
5)[Claim(s) is/are allowed.	withom consideration				
	⊠ Claim(s) <u>1-6,10-15 and 17-19</u> is/are rejected. ⊠ Claim(s) <u>7-9 and 16</u> is/are objected to.					
•	8) Claim(s) are subject to restriction and/or election requirement.					
	Application Papers					
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a	a) ⊠ All b) □ Some * c) □ None of:					
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachme	• •					
2) Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u> ,	5) 🔲 Not	rview Summary (PTO-413) Paper No(s) ice of Informal Patent Application (PTO-152) er:			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-4, 10-14, and 17-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Murayama et al. (US Patent No. 6,346,936).

In consider claim 1, Murayama et al. discloses all the claimed subject matter, note 1) the claimed an image signal processing circuit receiving an image signal and processing the image signal for display as an image is met by the RGB signal processing circuit (Fig. 1, col. 1, lines 20-26), 2) the claimed an image display unit receiving the image signal processed by the image signal processing circuit, and displaying the processed image signal as an image on a screen is met by the LCD panel 30 of the LCD display (Fig. 1, col. 1, lines 31-37), and 3) the claimed a control circuit varying a characteristic of the image signal in a periodic manner is met by the

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timing generator 4 which comprises the PLL circuit 41, the timing generating unit 46 and the phase shifter 47 as show in Fig. 5 (col. 5, line 36 to col. 6, line 12).

In consider claim 2, the claimed wherein the image is divided into spatial lines and temporal frames, and the control circuit alter said characteristic once per spatial line in each temporal frame is met by the timing generator 4 which comprises the PLL circuit 41, the timing generating unit 46 and the phase shifter 47 as show in Fig. 5 (col. 5, line 36 to col. 6, line 12).

In consider claim 3, the claimed wherein the control circuit also alters said characteristic once per said temporal frame in each said spatial line is met by the timing generator 4 which comprises the PLL circuit 41, the timing generating unit 46 and the phase shifter 47 as show in Fig. 5 (col. 5, line 36 to col. 6, line 12).

In consider claim 4, the claimed wherein the control circuit comprises a timing circuit receiving a first synchronizing signal indicating said spatial lines and a second synchronizing indicating said temporal frames, and generating a timing signal by dividing a frequency of the first synchronizing signal, toggling the timing signal once per said spatial line and reversing a phase of the timing signal once per said temporal frame, said characteristic being controlled according to the timing signal is met by the timing generator 4 which comprises the PLL circuit 41, the timing generating unit 46 and the phase shifter 47 as show in Fig. 5 (col. 5, line 36 to col. 6, line 12).

In consider claim 10, the claimed further comprising a control unit that determines a resolution of the image signal and activates the control circuit, depending

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on the resolution is met by the control input which is input from the external of the timing generator 4 (col. 5, lines 58-67).

In consider claim 11, the claimed further comprising an external control for activating the control circuit if the displayed image includes a moire pattern is met by the control input which is input from the external of the timing generator 4 (col. 5, lines 58-67).

Claims 12-14 are rejected for the same reason as discussed in claims 1-3, respectively.

In consider claim 17, the claimed wherein said step of periodically varying further comprises the step of periodically delaying the image signal is met by the phase shifter 47 (col. 5, lines 60-67).

Claims 18-19 are rejected for the same reason as discussed in claims 10-11, respectively.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 5-6 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murayama et al. (US Patent No. 6,346,936) in view of Nishino Kenji (JP Patent No. 06-12195).

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In consider claim 5, Murayama et al. disclose all the limitations of the instant invention, except for providing the claimed wherein the control circuit has a variable inductance element, and varies said characteristic by passing the image signal through the variable inductance element. Nishino Kenji teaches that the level control circuit 35 is amplified while the police box voltage from the police box voltage generating circuit 10 is supplied to the current amplification circuit 37 and transformed into current. Coil L1 which is attached in the color neck of a cathode-ray tube section, and generates vertical alternating field between the output terminal of this current amplification circuit 37, and grounding as show in drawing 5(A) and (B) and the series circuit of L2 (the respectively separate core is looped around) and the series circuit of a resistor 38 are connected (Page 2, lines 45-59). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate A coil L1 and L2 as taught by Nishino Kenji into Murayama et al's system in order to reduce the moiré generated with the color cathode-ray tube which used the shadow mask and the aperture grille.

In consider claim 6, the claimed wherein the variable inductance element comprises a coil having a primary winding and a secondary winding, the image signal passing through the primary winding, the control circuit alternately opening and closing the secondary winding is met by A coil L1 and L2 (Fig. 5, Page 2, lines 45-59).

Claim 15 is rejected for the same reason as discussed in claim 5.

Allowable Subject Matter

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5. Claims 7-9 and 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 7-9 and 16 identify the uniquely distinct features "wherein said characteristic is an amplitude characteristic, and the control circuit comprises: a first amplifier circuit amplifying the image signal with a first gain characteristic; a second amplifier circuit amplifying the image signal with a second gain characteristic differing from the first gain characteristic; and a timing circuit selecting the first amplifier circuit and the second amplifier circuit alternately". None of references of record, either singularly or in combination, fail to anticipate or render the above underlined limitations obvious.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Rindal et al (US Patent No. 6,020,939) disclose method and apparatus for reducing electromagnetic interference radiated by cathode ray tube displays.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Trang U. Tran** whose telephone number is **(703) 305-0090**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **John W. Miller**, can be reached at **(703) 305-4795.**

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Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

TT TT August 26, 2002

JOHN MILLER

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600